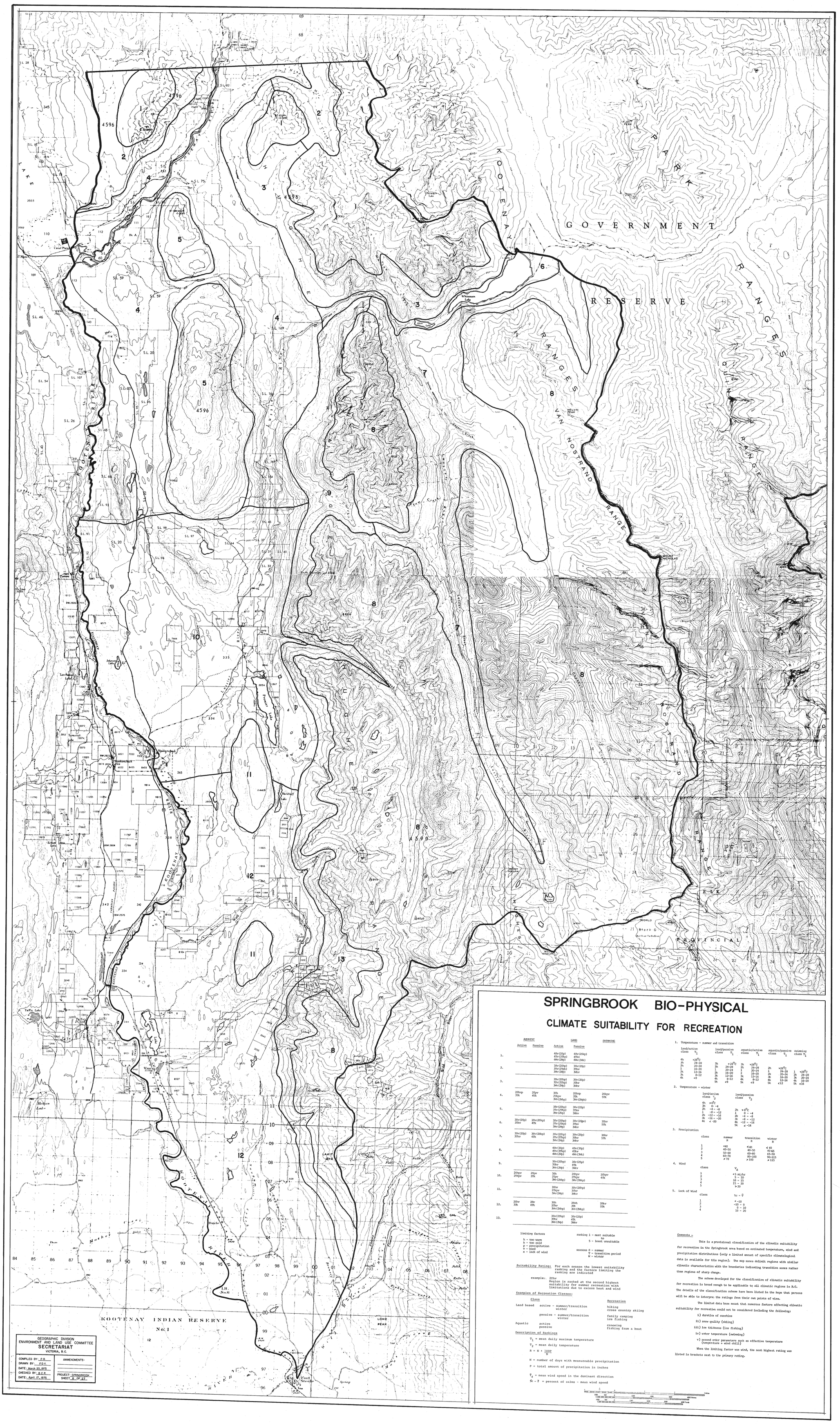

GEOGRAPHIC DIVISION
ENVIRONMENT AND LAND USE COMMITTEE
SECRETARIAT
VICTORIA, B.C.

COMPILED BY: R.B.
DRAWN BY: F.D.Y.
DATE: March 20, 1975
CHECKED BY: B.C.P.
DATE: April 17, 1975

AMMENDMENTS:

PROJECT: SPRINGBROOK
SHEET 6 OF 27

SPRINGBROOK BIO-PHYSICAL

CLIMATE SUITABILITY FOR RECREATION

	AQUATIC Active	AQUATIC Passive	LAND Active	LAND Passive	SWIMMING
1.			48v (25p) 47v (27kp) 4Wv (2kp)	45v (25kp) 47kv 4Wv (3kk)	
2.			38v (25hp) 37v (27pk) 3Wv (2kp)	35v (25p) 37kv 3Wkv	
3.			38v (25hp) 37v (27kp) 3Wv (2kp)	35v (25p) 37kv 3Wkv	
4.	25hvp 37k	25pv 47k	35h 27kpv 3Wv (2kkp)	25hvp 37k 3Wv (2kpk)	25kpv 57k
5.			38v (25hp) 37v (27kp) 3Wv (2kp)	35v (25p) 37kv 3Wkv	
6.	35v (25p) 37kv	35v (25kp) 47k	38v (25hp) 37v (27kp) 3Wv (2kp)	38v (25pv) 37kv 3Wkv	35kv 57k
7.	35v (25p) 37kv	38v (25kp) 47k	38v (25hp) 37v (27kp) 3Wv (2kp)	38v (25p) 37kv 3Wkv	35kv 57k
8.			48v (35p) 47v (37kp) 4Wv (2kp)	48v (35p) 47kv 4Wv (3kk)	
9.			38v (25hp) 37kv 3Wv (2kp)	35v (25p) 47k 3Wkv	
10.	25hpv 27kpv	25pv 37k	35h 27pv 3Wv (2kkp)	25hpv 27kpv 3Wv (2kkp)	25kpv 47k
11.			35hv 27kpv 3Wv (2kp)	35v (25hp) 37kv 3Wkv	
12.	25hv 37k	25v 47k	35h 27kv 3Wv (2kkp)	25hh 37k 3Wv (2kkp)	25kv 57k
13.			35v (25hp) 37kv 3Wv (2kp)	35v (25p) 47k 3Wkv	

limiting factors

h - too warm
k - too cold
p - precipitation
v - wind
x - lack of wind

ranking 1 - most suitable
to
5 - least unsuitable

seasons S - summer
T - transition period
W - winter

Suitability Rating: For each season the lowest suitability ranking and the factors limiting the ranking are indicated

example: 25hv
Region is ranked at the second highest suitability for summer recreation with limitations due to excess heat and wind

Examples of Recreation Classes:

	Class	Recreation
Land based	active - summer/transition winter	hiking cross country skiing
	passive - summer/transition winter	family camping ice fishing
Aquatic	active passive	canoeing fishing from a boat

Description of Rankings

$\bar{T}_1$ = mean daily maximum temperature

$\bar{T}_2$ = mean daily temperature

$R = N + \frac{100P}{N}$

N = number of days with measureable precipitation

P = total amount of precipitation in inches

$\bar{V}_d$ = mean wind speed in the dominant direction

$\%c - \bar{V}$ = percent of calms - mean wind speed

1. Temperature - summer and transition

land/active class	$\bar{T}_1$	land/passive class	$\bar{T}_1$	aquatic/active class	$\bar{T}_1$	aquatic/passive class	$\bar{T}_1$	swimming class	$\bar{T}_1$
4h	>26°C	3h	>26°C	3h	>26°C				
3h	24-28	2h	24-28	2h	24-28	2h	>26°C		
2h	20-24	1	20-24	1	20-24	1	24-28	1	>26°C
1	16-20	2k	16-20	2	16-20	2k	20-24	2k	24-28
2k	12-16	3k	12-16	3k	12-16	3k	16-20	3k	20-24
3k	8-12	4k	8-12	4k	8-12	4k	12-16	4k	16-20
4k	<8	5k	<8	5k	<8	5k	<12	5k	<16

2. Temperature - winter

land/active class	$\bar{T}_2$	land/passive class	$\bar{T}_2$
4h	>0°C		
3h	0 - -4		
2h	-4 - -8	2h	>0°C
1	-8 - -12	1	0 - -4
2k	-12 - -16	2k	-4 - -8
3k	-16 - -20	3k	-8 - -12
4k	< -20	4k	-12 - -16
		5k	< -16

3. Precipitation

class	summer R	transition R	winter R
1	<40	<40	<40
2	40-50	40-50	40-65
3	50-60	60-80	65-90
4	60-70	80-100	90-115
5	>70	>100	>115

4. Wind

class	$\bar{V}_d$
1	<5 mi/hr
2	5 - 10
3	10 - 15
4	15 - 20
5	>20

5. Lack of Wind

class	$\%c - \bar{V}$
1	<-10
2	-10 - 0
3	0 - 10
4	10 - 20

Comments -

This is a provisional classification of the climatic suitability for recreation in the Springbrook area based on estimated temperature, wind and precipitation distributions (only a limited amount of specific climatological data is available for this region). The map zones delimit regions with similar climatic characteristics with the boundaries indicating transition zones rather than regions of sharp change.

The scheme developed for the classification of climatic suitability for recreation is broad enough to be applicable to all climatic regions in B.C. The details of the classification scheme have been listed in the hope that persons will be able to interpret the ratings from their own points of view.

The limited data base meant that numerous factors affecting climatic suitability for recreation could not be considered including the following:

i) duration of sunshine

ii) snow quality (skiing)

iii) ice thickness (ice fishing)

iv) water temperature (swimming)

v) second order parameters such as effective temperature (temperature + wind chill)

When the limiting factor was wind, the next highest rating was listed in brackets next to the primary rating.

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